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RAW SEQUENCE LISTING

DATE: 07/24/2002

PATENT APPLICATION: US/10/083,720A

TIME: 11:33:44

Input Set : A:\Seq listing DX0644KBK.ST25.txt

Output Set: N:\CRF3\07242002\J083720A.raw

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3 <110> APPLICANT: de Waal Malefyt, Rene
4      Fickenscher, Helmut
5      Fleckenstein, Bernhard
6      Knappe, Andrea
8 <120> TITLE OF INVENTION: MAMMALIAN CYTOKINE; RELATED REAGENTS
10 <130> FILE REFERENCE: DX0644KBK
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/083,720A
C--> 12 <141> CURRENT FILING DATE: 2002-02-28
12 <150> PRIOR APPLICATION NUMBER: 09/363,993
13 <151> PRIOR FILING DATE: 1999-07-29
15 <150> PRIOR APPLICATION NUMBER: 08/934,959
16 <151> PRIOR FILING DATE: 1997-09-22
18 <150> PRIOR APPLICATION NUMBER: 60/345,690
19 <151> PRIOR FILING DATE: 2002-01-03
21 <150> PRIOR APPLICATION NUMBER: 60/302,176
22 <151> PRIOR FILING DATE: 2001-06-28
24 <150> PRIOR APPLICATION NUMBER: 60/027,368
25 <151> PRIOR FILING DATE: 1996-09-23
27 <160> NUMBER OF SEQ ID NOS: 21
29 <170> SOFTWARE: PatentIn version 3.1
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 1076
33 <212> TYPE: DNA
34 <213> ORGANISM: Homo sapiens
36 <220> FEATURE:
37 <221> NAME/KEY: CDS
38 <222> LOCATION: (36)..(548)
39 <223> OTHER INFORMATION:
42 <400> SEQUENCE: 1
43 ctgtgagtga cacacgctga gtggggtgaa gggaa atg ctg gtg aat ttc att      53
44                               Met Leu Val Asn Phe Ile
45                               1           5
47 ttg agg tgt ggg ttg ctg tta qtc act ctg tct ctt gcc att gcc aag      101
48 Leu Arg Cys Gly Leu Leu Leu Val Thr Leu Ser Leu Ala Ile Ala Lys
49      10           15           20

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61 55          60          65          70
63 aca aaa aag cag ttt atg aaa aac tgt caa ttt caa gaa cag ctt ctg      293
64 Thr Lys Lys Gln Phe Met Lys Asn Cys Gln Phe Gln Glu Gln Leu Leu
65          75          80          85
67 tcc ttc ttc atg gaa gac gtt ttt ggt caa ctg caa ttg caa ggc tgc      341
68 Ser Phe Phe Met Glu Asp Val Phe Gly Gln Leu Gln Leu Gln Gly Cys
69          90          95          100
71 aag aaa ata cgc ttt gtg gag gac ttt cat agc ctt agg cag aaa ttg      389
72 Lys Lys Ile Arg Phe Val Glu Asp Phe His Ser Leu Arg Gln Lys Leu
73          105          110          115
75 agc cac tgt att tcc tgt gct tca tca gct aga gag atg aaa tcc att      437
76 Ser His Cys Ile Ser Cys Ala Ser Ser Ala Arg Glu Met Lys Ser Ile
77          120          125          130
79 acc agg atg aaa aga ata ttt tat agg att gga aac aaa gga atc tac      485
80 Thr Arg Met Lys Arg Ile Phe Tyr Arg Ile Gly Asn Lys Gly Ile Tyr
81 135          140          145          150
83 aaa gcc atc agt gaa ctg gat att ctt ctt tcc tgg att aaa aaa tta      533
84 Lys Ala Ile Ser Glu Leu Asp Ile Leu Leu Ser Trp Ile Lys Lys Leu
85          155          160          165
87 ttg gaa agc agt cag taaaccaaag ccaagtacat tgattttaca gttattttga      588
88 Leu Glu Ser Ser Gln
89          170
91 aatacaataa gaactgctag aaatatgttt ataacagtct atttctttta aaaacttttt      648
93 aacataatac tgacggcatg ttaggtgatt cagaatagac aagaaggatt tagtaaatta      708
95 acgttttgga tataagttgt cactaatttg cacattttct gtgttttcaa ataatgtttc      768
97 cattctgaac atgttttgtc attcacaagt acattgtgtc aacttaattt aaagtatgta      828
99 acctgaatta actcgtgtaa tatttgtgtg tggagtggga tgtggggggg ggagggggaa      888
101 tgacagattt ctggaatgca atgtaatgtt actgagactt aaatagatgt tatgtatatg      948
103 attgtctgtt taagtgtttg aaaattgtta attatgccca gtgtgaactt agtacttaac      1008
105 acattttgat ttaattaaa taaattgggt ttccttctca aaaaaaaaaa aaaaaaaaaa      1068
107 aaaaaaaaaa                                     1076
110 <210> SEQ ID NO: 2
111 <211> LENGTH: 171
112 <212> TYPE: PRT
113 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 2
117 Met Leu Val Asn Phe Ile Leu Arg Cys Gly Leu Leu Leu Val Thr Leu
118 1          5          10          15
121 Ser Leu Ala Ile Ala Lys His Lys Gln Ser Ser Phe Thr Lys Ser Cys
122          20          25          30
125 Tyr Pro Arg Gly Thr Leu Ser Gln Ala Val Asp Ala Leu Tyr Ile Lys
126          35          40          45
129 Ala Ala Trp Leu Lys Ala Thr Ile Pro Glu Asp Arg Ile Lys Asn Ile
130          50          55          60

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142          100          105          110
145 Ser Leu Arg Gln Lys Leu Ser His Cys Ile Ser Cys Ala Ser Ser Ala
146          115          120          125
149 Arg Glu Met Lys Ser Ile Thr Arg Met Lys Arg Ile Phe Tyr Arg Ile
150          130          135          140
153 Gly Asn Lys Gly Ile Tyr Lys Ala Ile Ser Glu Leu Asp Ile Leu Leu
154 145          150          155          160
157 Ser Trp Ile Lys Lys Leu Leu Glu Ser Ser Gln
158          165          170
161 <210> SEQ ID NO: 3
162 <211> LENGTH: 179
163 <212> TYPE: PRT
164 <213> ORGANISM: Equine Herpes Virus
166 <400> SEQUENCE: 3
168 Met Phe Arg Ala Ser Leu Leu Cys Cys Leu Val Leu Leu Ala Gly Val
169 1          5          10          15
172 Trp Ala Asp Asn Lys Tyr Asp Ser Glu Ser Gly Asp Asp Cys Pro Thr
173          20          25          30
176 Leu Pro Thr Ser Leu Pro His Met Leu His Glu Leu Arg Ala Ala Phe
177          35          40          45
180 Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Met
181          50          55          60
184 Leu Leu Asp Gly Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys
185 65          70          75          80
188 Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro
189          85          90          95
192 Gln Ala Glu Asn His Ser Thr Asp Gln Glu Lys Asp Lys Val Asn Ser
193          100          105          110
196 Leu Gly Glu Lys Leu Lys Thr Leu Arg Val Arg Leu Arg Arg Cys His
197          115          120          125
200 Arg Phe Leu Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys
201          130          135          140
204 Ser Ala Phe Ser Lys Leu Gln Glu Lys Gly Val Tyr Lys Ala Met Ser
205 145          150          155          160
208 Glu Phe Asp Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Thr Lys
209          165          170          175
212 Met Lys Asn
216 <210> SEQ ID NO: 4
217 <211> LENGTH: 170
218 <212> TYPE: PRT
219 <213> ORGANISM: Epstein Barr Virus
221 <400> SEQUENCE: 4
223 Met Glu Arg Arg Leu Val Val Thr Leu Gln Cys Leu Val Leu Leu Tyr
224 1          5          10          15

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236      50      55      60
239 Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala Leu Ser Glu Met Ile
240 65      70      75      80
243 Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala Glu Asn Gln Asp Pro
244      85      90      95
247 Glu Ala Lys Asp His Val Asn Ser Leu Gly Glu Asn Leu Lys Thr Leu
248      100      105      110
251 Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu Pro Cys Glu Asn Lys
252      115      120      125
255 Ser Lys Ala Val Glu Gln Ile Lys Asn Ala Phe Asn Lys Leu Gln Glu
256      130      135      140
259 Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp Ile Phe Ile Asn Tyr
260 145      150      155      160
263 Ile Glu Ala Tyr Met Thr Ile Lys Ala Arg
264      165      170
267 <210> SEQ ID NO: 5
268 <211> LENGTH: 178
269 <212> TYPE: PRT
270 <213> ORGANISM: Mus musculus
272 <400> SEQUENCE: 5
274 Met Pro Gly Ser Ala Leu Leu Cys Cys Leu Leu Leu Leu Thr Gly Met
275 1      5      10      15
278 Arg Ile Ser Arg Gly Gln Tyr Ser Arg Glu Asp Asn Asn Cys Thr His
279      20      25      30
282 Phe Pro Val Gly Gln Ser His Met Leu Leu Glu Leu Arg Thr Ala Phe
283      35      40      45
286 Ser Gln Val Lys Thr Phe Phe Gln Thr Lys Asp Gln Leu Asp Asn Ile
287      50      55      60
290 Leu Leu Thr Asp Ser Leu Met Gln Asp Phe Lys Gly Tyr Leu Gly Cys
291 65      70      75      80
294 Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr Leu Val Glu Val Met Pro
295      85      90      95
298 Gln Ala Glu Lys His Gly Pro Glu Ile Lys Glu His Leu Asn Ser Leu
299      100      105      110
302 Gly Glu Lys Leu Lys Thr Leu Arg Met Arg Leu Arg Arg Cys His Arg
303      115      120      125
306 Phe Leu Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Ser
307      130      135      140
310 Asp Phe Asn Lys Leu Gln Asp Gln Gly Val Tyr Lys Ala Met Asn Glu
311 145      150      155      160
314 Phe Asp Ile Phe Ile Asn Cys Ile Glu Ala Tyr Met Met Ile Lys Met
315      165      170      175
318 Lys Ser
322 <210> SEQ ID NO: 6

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330 1           5           10           15
333 Arg Ala Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His
334           20           25           30
337 Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe
338           35           40           45
341 Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu
342           50           55           60
345 Leu Leu Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys
346 65           70           75           80
349 Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro
350           85           90           95
353 Gln Ala Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu
354           100          105          110
357 Gly Glu Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Cys His Arg
358           115          120          125
361 Phe Leu Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn
362           130          135          140
365 Ala Phe Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu
366 145          150          155          160
369 Phe Asp Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile
370           165          170          175

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373 Arg Asn

377 <210> SEQ ID NO: 7

378 <211> LENGTH: 20

379 <212> TYPE: DNA

380 <213> ORGANISM: Artificial Sequence

382 <220> FEATURE:

383 <223> OTHER INFORMATION: IL-8 forward.

385 <220> FEATURE:

386 <221> NAME/KEY: misc_feature

387 <222> LOCATION: (1)..(20)

388 <223> OTHER INFORMATION: IL-8 forward probe

391 <400> SEQUENCE: 7

392 Tggcagcctt cctgatttct

20

395 <210> SEQ ID NO: 8

396 <211> LENGTH: 26

397 <212> TYPE: DNA

398 <213> ORGANISM: Artificial Sequence

400 <220> FEATURE:

401 <223> OTHER INFORMATION: IL-8 reverse.

403 <220> FEATURE:

404 <221> NAME/KEY: misc_feature

405 <222> LOCATION: (1)..(26)

406 <223> OTHER INFORMATION: IL-8 reverse probe.

410 <212> TYPE: DNA

VERIFICATION SUMMARY

DATE: 07/24/2002

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Input Set : A:\Seq listing DX0644KBK.ST25.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date